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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/759,212	01/20/2004	Luca Zucchelli	08801.0082-02000	6425
22852 7590 04/06/2007 FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER LLP 901 NEW YORK AVENUE, NW WASHINGTON, DC 20001-4413			EXAMINER	
			TOOMER, CEPHIA D	
			ART UNIT	PAPER NUMBER
			1714	
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MONTHS		04/06/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)				
	10/759,212	ZUCCHELLI ET AL.				
Office Action Summary	Examiner	Art Unit				
	Cephia D. Toomer	1714				
The MAILING DATE of this communication app Period for Reply	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on 03 Ja	anuary 2007.					
2a) This action is FINAL . 2b) ☑ This action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>43-82</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6) Claim(s) <u>43-47,49-51,53,55-58,61-64,66-69,71</u>	<u>-73 and 77-81</u> is/are rejected.					
7) Claim(s) 48,52,54,59,65,70,74-76 and 82 is/ard						
8) Claim(s) are subject to restriction and/o	r election requirement.	·				
Application Papers						
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
*						
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summary					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date. 5) Notice of Informal Patent Application						
Paper No(s)/Mail Date	6) Other:					
U.S. Patent and Trademark Office PTOL-326 (Rev. 08-06) Office Ac	ction Summary Pa	art of Paper No./Mail Date 20070329				

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DETAILED ACTION

This Office action is in response to the amendment filed January 3, 2007 in which the Terminal Disclaimer was filed. The Terminal Disclaimer has been entered.

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 43-47, 49-51, 53, 55-58, 61-64, 66-69, 71-73 and 77-81 are rejected under 35 U.S.C. 103(a) as being unpatentable over Andrews (US 5,643,342).

Andrews teaches a fuel pellet and method of making the fuel pellet comprising 0 to about 80% by weight of cellulosic material, from 20% to about 50% by weight of densified thermoplastic material and from 0 to about 50% by weight of coal (see abstract). The cellulosic material, densified thermoplastic material and coal are ground to a particle size from about 80 mesh to about 200 mesh and is blended into a mixture wherein the contents are evenly distributed throughout (see abstract). The cellulosic material is urban waste such as paper mill sludge, wood chips, paper fibers and other paper products (see col. 4, lines 46-61). The fuel pellet breaks into discrete particles as it enters the furnace and burns. Therefore, smaller particles within the pellet are capable of burning quicker due to their size and density (see col. 5, lines 16-24). The moisture of the fuel pellet should be at least bout 5% by weight and no greater than

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about 10% by weight (See col. 5, lines 33-36). This teaching suggests that the moisture content of the thermoplastic is less than or equal to 10%. Andrews teaches the limitations of the claims other than the differences that are discussed below.

In the first aspect, Andrews differs from the claims in that he does not specifically teach the density of the fuel. However, no unobviousness is seen in this difference because Andrews teaches that the density of the fuel may be optimized to produce a quicker burning fuel.

In the second aspect, Andrews fails to teach the combustion rate and temperature. However, no unobviousness is seen in this difference because Andrews teaches that the fuel pellet breaks into discrete particles as it enters the furnace and burns. Therefore, smaller particles within the pellet are capable of burning quicker due to their size and density. These teachings suggest that the fuel pellet may be prepared wherein the particle sizes are optimized such that the particles combust in a given amount of time. With respect to the temperature, it would have been obvious to one of ordinary skill in the art to select a temperature not less than 1500 C because Andrews teaches that the specification of the furnaces may vary but that the furnace be configured such that rapid burning of the fuel occurs.

3. Claims 48, 52, 54, 59, 65, 70, 74-76 and 82 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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The prior art fails to teach the claimed amount of the fossil fuel, the fuel in emulsion or suspension form and the addition of the elastomeric polymer material, the fossil fuel and non-fossil fuel are fed to the burner separately.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Cephia D. Toomer whose telephone number is 571-272-1126. The examiner can normally be reached on Monday-Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vasu Jagannathan can be reached on 571-272-1119. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Cephia D. Toomer Primary Examiner Art Unit 1714

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